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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/501,622	02/09/2000	Randell L. Mills	8ac4-D2	4146
20736 MANFLLID	7590 04/13/2007 ENISON & SELTER		EXAMINER	
2000 M STRI	EET NW SUITE 700		KALAFUT, STEPHEN J	
WASHINGTO	ON, DC 20036-3307		ART UNIT PAPER NUMBER	
		•	1745	
SHORTENED STATUTO	DRY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 M	ONTHS	04/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
Office Action Summany		MILLS, RANDELL L.	
Office Action Summary	Examiner	Art Unit	
	Stephen J. Kalafut	1745	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 24 Oc	action is non-final.  nce except for formal matters, pro		
Disposition of Claims		<i>:</i>	
4) ☐ Claim(s) 1-265 is/are pending in the application 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-265 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examinet 10) ☐ The drawing(s) filed on is/are: a) ☐ accessions.	vn from consideration.  r election requirement.	Examiner.	
Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Extension 11.	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)    Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Information Disclosure Statement(s) (PTO/SB/08)   Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte	

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 24 October 2006 has been entered.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-265, for reasons of record, are rejected under 35 U.S.C. 101 because the disclosed invention is inoperative and therefore lacks utility. See paper no. 4, pages 2-4.

Claims 1-265 are, for reasons of record, are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. See paper no. 4, pages 4-9.

Applicant's arguments filed 24 October 2006 have been fully considered but they are not persuasive.

Applicant faults consultory examiner Bernard Souw (page 2) for drafting, "numerous lengthy appendices totaling hundreds of pages". Applicant has submitted remarks and

appendices totaling over a hundred pages <u>each</u>. Also, while applicant faults Dr. Souw for drafting these appendices, he also contradictorily alleges that the "Committee", of which Dr. Souw is a member", has "largely ignored" the "record evidence" that he has submitted (page 24).

Applicant argues (page 4), that the "Committee does not even mention, let alone consider, most of the certified experimental evidence" that he has submitted. Contrary to this assertion, the reasons that the evidence has not been persuasive were explained in the Office actions of paper nos. 20050109 and 20060407, and the Appendices attached thereto. Failure to be persuaded is not the same thing as a refusal to consider. Applicant alleges that the "Secret Committee" has dismissed his evidence (page 22), yet faults what he considers "erroneous arguments" in the Appendices of Dr. Souw (page 23), which themselves <u>are</u> a consideration of evidence submitted by applicant.

Applicant argues (pages 25-26) that "the level of support (or acceptance) in the scientific community is not the proper standard for ascertaining whether an applicant has satisfied the enablement or utility requirements under Sections 112 and 101". Section 112 refers to persons "skilled in the art" to which the invention "pertains", while Section 101 states that an inventor may obtain a patent "subject to the conditions and requirements of this title", some of which are recited in Section 112. The "scientific community" would represent people "skilled in the art", and thus the level of support therein would be a factor in determining whether the requirements of Sections 112 and 101 have been met.

Applicant asks (page 30) how can the "Committee" admit on one hand that Quantum Mechanics "needs improvement", but on the other hand claims it as a "scientific principle"? Here, applicant omits an important part of Dr. Souw's statement, that SQM "contains parts that

need improvement" (emphasis added). This would imply that the rest of SQM is satisfactory as it is. Classical Newtonian physics, with its explanation of gravity and laws of motion, works well on the scale of everyday observation, but could not explain all natural phenomena, such as the fact that no object other than electromagnetic waves could move at the speed of light. These would be explained by Einstein's theories of relativity. Einstein's theories were an improvement upon Newton's laws, but did overturn them with regard to the phenomena that they did explain. Thus, Newtonian mechanics are scientific principal within a certain scale of observation, but needed improvement to explain reality outside that scale.

Applicant makes or repeats various arguments about examiners Langel, Waymer and Jaganathan, Specialist McGuinty, Supervisor Silverman, Directors Rogan and Kepplinger, Court Cases, and activity by Dr. Park, none of which determine whether applicant has satisfied the requirements of Sections 112 and 101.

Applicant argues (page 120-122) that consultory examiner Bernard Souw owns and works for a business that is "in competition with Applicant". Applicant's invention as recited in the present claims is doped semiconductors, while Dr. Souw's work pertains to microwave plasmas, and is thus not in competition with the present subject matter. Applicant refers to other applications to which his alleged hydrinos are applicable. By applicant's logic, house building and papermaking would be in competition because they both use wood as a raw material.

Once again applicant faults the "Committee" for relying on Krieg (pages 28-29), doing so because the "Committee" was "feeling the pressure to back up its claims". Krieg was not cited because of any "pressure", but to address a specific argument raised by applicant, that the "Committee" has failed to find any physical law the applicant has violated. Krieg makes four

basic points. First, Krieg states that total energy, identified by the variable "E", is the sum of kinetic and potential energy. Second, he uses the laws of electricity and magnetism to establish the potential energy of the proton-electron system. Third, he used the uncertainty principle to get an order of magnitude estimate for the momentum of an electron for a given orbit, which orbit is identified by its radius as "r". Fourth, he used calculus find the minimum value of "r" by taking the derivative of "E" and setting it equal to zero. Nowhere in applicant's arguments about Krieg are any of these points disputed.

Applicant argues (pages 133-134) that the "Committee" contradicts itself in the statement in the Office action of 09 September 2005, in serial no. 09/362,693, and in the Advisory action of 12 December 2005, in serial no. 09/110,694, "which do not necessarily require the use of hydrinos, while applicant's invention (in the present application) deal with methods of making compounds that include hydrinos". Applicant takes this as an admission that the committee has "been forced to recognize the operability of BlackLight's novel hydrogen technology based on the required use of hydrinos to distinguish it from Dr. Souw's work". This statement was, and is, in no way whatsoever intended to be taken as an admission that the present examiner, or anyone consulted thereby, considers applicant's invention to be operable. The statement was only intended to show how Dr. Souw's work is seen as distinct from, and thus not conflicting with applicant's invention, without regard to its operability or patentability.

Applicant argues (page 141) that Dr. Souw has relied on a fraud made by Dr. Andreas Rathke, where Dr. Rathke changes mathematical signs in applicant's equations (1) and (9). Since the articles which Dr. Rathke cites (nos. 24 and 25, on page 8 of his article) are not of record, whether Dr. Rathke has done what applicant alleges cannot be determined. However, it

is noted that equation (1), on page 2 of the Rathke article appears identical to Equation (2) in applicant's attachment 58, except that applicant uses the coordinates "r", "theta" and "phi" within the parentheses, along with "t", whereas Rathke uses only "x" and "t". No signs, such as plus or minus, appear to have been changed.

Applicant argues (page 155) that the "Committee" provides no support for concluding, in the Final Office Action of 11 April 2006, that attachments 100, 102, 103, 105-109, 111, 113 and 114 speculate hydrino formation as an explanation for data not necessarily caused thereby. The Appendix to paper no. 20060407, on page 5 thereof, offers several different explanations alternative explanations for the Balmer line broadening observed by applicant, and thus support for the conclusion of the "Committee".

Applicant argues (pages 157-158) that "the Committee's argument regarding the stability of the hydrogen atom according to the HUP as applied by Krieg has no basis in fact, as shown thirty years ago by Lieb in the paper" entitled "The stability of matter" (emphasis applicant's). Applicant then asserts (page 158), "the approach by Feynman and Lieb are physically baseless". Thus, applicant first appears to rely on Lieb, and then faults him for his approach.

Applicant argues (page 164) that the data of Cvetanovic *et al.* support his RTM. On page 7, in the right column of their article, Cvetanovic *et al.* list the precise data which, according to them, cannot be explained by RTM. To summarize, these include "different line shapes recorded end-on and side-on", the "large contribution" of hydrogen atoms having energies two orders of magnitude larger than electron temperature, "the increase in profile width with the decrease of discharge pressure", "spatial inhomogenicity of the excessive broadening" and "throughout the negative glow, the intensity of the excessively broadened part of line profile decreases

exponentially". The data equivalent to that shown by applicant may be explained by other conventionally known mechanisms, as shown by Luggenhölscher *et al.* and Luque *et al.* cited in the IDS of 26 July 2005.

Applicant argues (page 165) that the text of Cvetanovic *et al.* "contains some clear misrepresentations", specifically that while the broadening of Figure 4c appears to be larger than that of Figures 4a and 4b, because Figure 4c was "printed in a larger format", but is actually "virtually identical" to the broadening shown in figures 4a and 4b. Figure 4c is on a somewhat smaller scale than the other two figures. However, the data shown in figure 4c shows more asymmetry than seen in the other two, as well as a profile shape that deviates more from convex.

Applicant argues (page 166) that EarthTech is his competitor, and thus that "their results can not be considered without bias". EarthTech International is an organization whose activities deal with investigating aspects of the Zero-Point Field, but also evaluate what they call "overunity" energy devices, and have attempted to test one of applicant's devices. See the website <a href="www.earthtech.org">www.earthtech.org</a>. Applicant does not point out what specific activity of EarthTech is in competition with his own. If applicant considers EarthTech's attempt to test his device to be a competitive act, then the "independent third parties", of whom applicant argues (pages 71 et seq.) have generated data that supports his alleged lower energy states of hydrogen, must also be considered applicant's competitors. Here, applicant appears to say that the results supporting him must be considered, while results that do not support him are from "competitors", and must be dismissed as biased.

Applicant argues (page 167) that Barth (cited in the IDS of 26 July 2005) is mistaken when stating that applicant has overlooked electromagnetic attraction between the nucleus and

the electron, since this attraction is taken into account by the force balance equation (1.232).

Barth is specifically referring to the wave equation, which is commonly used to represent traveling waves such as sound waves, and is used by applicant to describe the electron's "charge density function", as not containing any term for the electromagnetic attraction.

Applicant argues (page 168) that the "Committee" has failed to account for energy being transferred to the catalyst when calculating the energy values for the variable "q", which is a multiple of -13.6 eV. This is not persuasive because this would involve transfers of energy that the "hydrino", as postulated by applicant, cannot undergo. For example, q = 4 when p = 2, and q= 9 when p = 3. A hypothetical change of energy of q = 5 occurs when p changes from 2 to 3. Since the energy levels experienced by the electron of a hypothetical hydrino must exhibit one of these values of q, the change in energy cannot be "split" between the two values. Moreover, if one were to take into account catalyst enthalpy, and allow the difference in q to be "split" between energy given to the catalyst, which is allegedly transferred in multiples "m" of 27.2 eV, corresponding to a change in q of 2m (since 27.2 eV is itself 13.6 eV x 2), and energy given off as a photon, one would still expect an emission of energy corresponding to q = 5, which is not observed by applicant. This is because the overall change in energy between p=4 and p=5would be the difference between q = 16 and q = 25, or a change of q = 9. Taking into account energy transferred to a catalyst at  $2 \times 27.2$  eV (or m = 2), which also corresponds to q = 4, one would expect the remainder to be a change in q equaling 5.

This is a Request For Continued Examination of applicant's earlier Application No. 09/501,622. All claims are drawn to the same invention claimed in the earlier application and

could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Kalafut whose telephone number is 571-272-1286. The examiner can normally be reached on Mon-Fri 8:00 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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